

(4)

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PN - JP11301832 A 19991102 DW200003 B65G27/16 012pp

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AB - JP11301832 NOVELTY - A energy supply board (4) is attached to the upper portion of a resonance pipe (1). By generating acoustic energy of predetermined wavelength using a generator (2), the board (4) oscillates and radiation pressure is generated between the floated objects (6), thereby offers floating power to the object.

- USE - For conveying semiconductor wafer, liquid crystal display device substrate in manufacturing facility.

- ADVANTAGE - Because of the acoustic energy of low resonance frequency, very large floatage power is obtained, thereby enables easy conveyance. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of floatage apparatus. (1) Resonance pipe; (2) Generator; (4) Supply board; (6) Floated object.

- (Dwg.2/18)

IW - ACOUSTIC ENERGY BASED APPARATUS CONVEY SEMICONDUCTOR WAFER OSCILLATING ENERGY SUPPLY BOARD ATTACH END RESONANCE PIPE GENERATE ACOUSTIC ENERGY OFFER FLOAT POWER OBJECT

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NC - 001

OPD - 1998-04-22

ORD - 1999-11-02

PAW - (TOKE ) TOSHIBA KK

TI - Acoustic energy based floatage apparatus for conveying semiconductor wafer - oscillates floatage energy supply board which is attached to end of resonance pipe, with generated acoustic energy and offers floating power to object